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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,461	02/01/2002	Ichiro Kubota	450101-03584	9479
7590 William S Frommer Frommer Lawrence & Haug 745 Fifth Avenue New York, NY 10151		02/05/2007	EXAMINER SHANG, ANNAN Q	
			ART UNIT 2623	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/937,461	KUBOTA ET AL.	
	<b>Examiner</b> Annan Q. Shang	<b>Art Unit</b> 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 21 November 2006.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5 and 7-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Sie et al (6,973,662)** in view of **Huizer et al (5,875,303)**.

As to claim 1, note the **Sie** reference figures 3-5 and 12-14, discloses method for providing programming distribution and further discloses a data transmission system for distributing predetermined data through transmission paths, the data transmission system comprising:

A data transmitting apparatus (figs.3 and 4, every element on the left of the network, i.e., 116, 124, 128, 132, 136 and 304 or 404, Headend 'HE', col.3, line 56-col.4, line 21 and col.19, lines 16-37) including data supply means for supplying the data (128, 132 and 136), transmission control means (SMS-124) for dividing the data (MPEG-2 or different algorithms such as MPEG-4, data files, movie content, etc.) supplied by the data supply means into a predetermined number of data files to distribute the divided divisional data files, and data transmitting means (SMS-124) for transmitting each of the distributed divisional data files respectively through a predetermined transmission path/paths which are different from each other (via different channels and different network, col.5, lines 5-18, col.7, lines 3-12, col.14, line 4-col.15,

line 47) and where the data files are restored by synthesis, note that the data file(s), movies or video program is staggered among various channels and distributed in real-time via satellite on different transponders or via other communication network and once a viewer begins watching a portion of the data, movie, etc., the rest the data, movie, etc., is retrieved via combination of different channels or networks, satellite, cable, optical fiber and other broadband networks; and

A data receiving apparatus (STB 120/412 figs.4-6, or Receiver 1100, 1200, etc., figs.11-16) including data receiving means (Program Receiver/ Program Server) for receiving the divisional data files transmitted through the predetermined transmission paths, data receiving control means (Controller or Control Circuit) for restoring by synthesizing the plurality of the plurality of the received divisional data files, transmitted via different channels, transponders, etc., of the different networks, into original data or MPEG file(s), and data output means for outputting the restored data (figs.11, 12, col.14, line 56-col.15, line 35 and col.17, line 43-col.18, line50).

Sie fails to explicitly teach where the data transmitting apparatus stores the distributed divisional data files in a private section of a respective transport stream and where the data receiving apparatus extracts the divisional data files from the private section of the transport stream.

However, note the **Huizer** reference figures 1-6, discloses method and arrangement for transmitting an interactive audiovisual (AV) program where a Server (1) stores sectors of AV program in the private section of the transport stream and a Receiver (2), which extracts the sectors from the transport stream and reassembles the

sectors accordingly (col.1, line 61-col.2, line 24, line 40-col.3, line 1+ and col.5, line 61-col.6, line 10).

Therefore it would have been obvious to one of ordinary skilled in the art at the time of the invention to incorporate the teaching of Huizer into the system of Sie in order to encode different parts of AV program or multimedia in the private section of the transport stream and comply with the MPEG standard.

As to claim 2, Sie further discloses where the data transmission system where the data supply means stores data files generated in advance, to deliver the stored data files as occasion demands (col.3, lines 66-col.4, line 13 and col.14, line 19-29).

As to claim 3, Sie further discloses where the data supply means supplies data generated in real time (col.3, lines 66-col.4, line 13 and col.14, line 19-29).

Claim 4 is met as previously discussed with respect to claim 1.

As to claim 5, Sie further discloses where the transmission control means of the data transmitting apparatus divides the data in units of predetermined transmission frame to distribute each of the divisional data files respectively to the data transmitting means (figs.9A-9C and col.14, line 4-col.15, line 35).

As to claim 7, Sie further discloses where each of the transmission paths is formed by a plurality of transponders mounted in satellite (col.5, lines 38-48 and line 60-col.6, line 2).

As to claim 8, the claimed "A data transmitting apparatus for transmitting predetermined data through transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 9, the claimed "A data receiving apparatus for receiving predetermined data through transmission paths..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 10, the claimed "A data transmitting method for distributing predetermined data through transmission paths..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 11, the claimed "A data transmission system for transmitting moving picture data files through a transmission paths..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 12, the claimed "A data transmitting apparatus for transmitting moving picture data files through a transmission paths..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 13, the claimed "A data receiving apparatus for receiving predetermined data through transmission paths..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 14, the claimed "A data transmitting method for transmitting moving picture data files through transmission paths..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 15, the claimed "A data transmission system for transmitting movie contents files through satellite transponders..." is composed of the same structural elements that were discussed with respect to the rejection of claim 1.

As to claim 16, the claimed “A data transmitting apparatus for transmitting movie content files through satellite transponders...” is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 17, the claimed “A data receiving apparatus for receiving movie content files through satellite transponders...” is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 18, the claimed “A data transmission method for transmitting movie contents files through satellite transponders...” is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

3. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Sie et al (6,973,662)** in view of **Huizer et al (5,875,303)** as applied to claim 1 above, and further in view of **Payton (5,831,662)**.

As to claim 6, Sie as modified by Huizer, teach where the data transmitting means of the data transmitting apparatus further detects a state as to whether the transmission path connected to the transmitting means can be used or not, and transmits the detected state serving as transmission path information to the transmission control means (Sie, col.7, lines 5-18, col.7, lines 3-12, col.14, line 47-55, line 65-col.15, line 35), but fail to explicitly teach where the transmission control means of the data transmitting apparatus further collects the transmission path information to calculate a number of usable transmission paths to divide the data in correspondence the calculated number to distribute each of the divisional data files respectively to the usable data transmitting means.

However, not the **Payton** reference discloses a near on-demand delivery system, which collects the transmission path information to calculate a number of usable transmission paths to divide the data in correspondence the calculated number to distribute each of the divisional data files respectively to the usable data transmitting means (col.3, lines 23-col.5, line 5 and line 64-col.6, line 67).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Payton into the system of Sie as modified by Huizer to determine the minimum number of available paths, channels, networks, etc., that can be used to transmit the various data fragments.

#### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection. The amendment to all the independent claims necessitated the new ground(s) of rejection discussed above. **This office action is made final.**

#### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Van Der Meer et al (6,661,467) disclose subtitling transmission system.

Jungers et al (6,438,140) disclose data structure, method and apparatus providing efficient retrieval of data from a segmented information stream.

Inoue et al (6,157,948) disclose program reception/execution apparatus, which can start execution of program even when only part of program is received.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is 571-272-7355. The examiner can normally be reached on 700am-400pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on 571-272-7331. The fax phone

number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free)**. If you would like assistance from a **USPTO Customer Service Representative** or access to the automated information system, **call 800-786-9199 (IN USA OR CANADA) or 571-272-1000**.



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